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This listing of claims will replace all prior versions of claims in the application.

Claim 1. (previously presented) A coated substrate comprising:

- a) an organic underlayer composition coating layer on a substrate, the underlayer composition comprising a component that comprises aromatic and/or alicyclic groups and a component that comprises one or more chromophore groups;
- b) over the underlayer composition coating layer, a photoresist composition coating layer for imaging at less than 200 nm, the photoresist comprising a photoactive component and an Si-containing component.
- Claim 2. (previously presented) The coated substrate of claim 1 wherein the underlayer composition comprises an integral component that comprises both i) aromatic and/or alicyclic groups and ii) chromophore groups.
- Claim 3. (previously presented) The coated substrate of claim 1 wherein the underlayer composition comprises a first component that comprises aromatic and/or alicyclic groups and a second component distinct from the first component that comprises chromophore groups.
- Claim 4. (currently amended) The coated substrate of <u>claim 1</u> any one of <u>claims 1</u> through 3 wherein the chromophore groups comprise anthracene groups.
- Claim 5. (currently amended) The coated substrate of <u>claim 1</u> any one of claims 1 through 4 wherein the underlayer composition component that comprises aromatic and/or alicyclic groups comprises optionally substituted phenyl groups, optionally substituted naphthyl groups, optionally substituted adamantyl groups, optionally substituted norbornyl groups, or optionally substituted isobornyl groups.

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- Claim 6. (currently amended) The coated substrate of <u>claim 1</u> any one of claims 1 through 5 wherein the underlayer composition comprises a mixture of at least two distinct resins.
- Claim 7. (previously presented) The coated substrate of claim 6 wherein one resin of the underlayer composition comprises aromatic and/or alicyclic groups and a second resin of the underlayer composition comprises one or more chromophore groups.

Claims 8-21. (cancelled)

- Claim 22. (previously presented) A method for forming a photoresist relief image comprising:
- a) applying an organic underlayer composition coating layer on a substrate, the underlayer composition comprising a component that comprises aromatic and/or alicyclic groups and a component that comprises one or more chromophore groups;
- b) applying a photoresist composition coating layer over the underlayer composition, the photoresist composition comprising a photoactive component and an Si-containing component;
- c) exposing the photoresist composition coating layer to radiation having a wavelength of less than about 200 nm.
- Claim 23. (previously presented) The method of claim 22 wherein the photoresist layer is exposed to radiation having a wavelength of less than 170 nm.
- Claim 24. (previously presented) The method of claim 22 wherein the photoresist layer is exposed to radiation having a wavelength of about 193 nm.
- Claim 25. (previously presented) The method of claim 22 wherein the photoresist layer is exposed to radiation having a wavelength of about 157 nm.

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Claims 26-51. (cancelled)

Claim 52. (previously presented) An article of manufacture comprising a substrate having coated thereon a multilayer photoresist system,

the system comprising:

- a) an organic underlayer composition coating layer on a substrate, the underlayer composition comprising a component that comprises aromatic and/or alicyclic groups and a component that comprises one or more chromophore groups;
- b) over the underlayer composition coating layer, a photoresist composition coating layer for short wavelength imaging, the photoresist comprising a photoactive component and an Si-containing component.
- Claim 53. (previously presented) The article of claim 52 wherein the substrate is a microelectronic wafer substrate, an optoelectronic device substrate or a waveguide.
- Claim 54. (previously presented) An underlayer composition for use with an overcoated silicon-containing photoresist imaged at under 200 nm, the underlayer composition comprising:
- a first resin that comprises phenolic groups, and a second resin that comprises anthracene groups.

Claims 55-60.